

-1- (JAPIO)

ACCESSION NUMBER

TITLE

PATENT APPLICANT

INVENTORS

PATENT NUMBER

APPLICATION DETAILS

SOURCE

INT'L PATENT CLASS

JAPIO CLASS

ABSTRACT

85-032249

ZINC ALLOY FOR NEGATIVE ELECTRODE OF PRIMARY BATTERY
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H01M-004/42; C22C-018/00; H01M-004/12

42.9 (ELECTRONICS--Other); 12.2 (METALS--Metallurgy
Heat Treating); 12.3 (METALS--Alloys)

PURPOSE: To achieve high corrosion resistance and
discharge utilization of a zinc alloy containing
little or no amalgam and a specified quantity of
silver by adding at least one element chosen from
among gallium, indium, lead, bismuth and thallium.

CONSTITUTION: A zinc alloy containing not less than
0.01% of silver and at least one element chosen from
among gallium, indium, lead, bismuth and thallium is
used. The zinc alloy containing not less than 0.01%
of silver is further treated with an aqueous solution
of salts of at least one element chosen from among
gallium, indium, lead, bismuth and thallium to coat
the surface of the zinc alloy with a substitution
layer of said elements. The thus obtained coated zinc
alloy has remarkably improved corrosion resistance
and discharge characteristic of zinc.